

LAND APPLICATION SITE

LYNN J VAUGHAN SITE

LULJV 1-8

LUNENBURG COUNTY

RECYC SYSTEMS, INC

PART D-VI BIOSOLIDS APPLICATION AGREEMENT

This biosolids application agreement is made on 5-14-09 between LYNN J. VAUGHAN, referred to here as "landowner", and Recyc Systems, Inc, referred to here as the "Permittee".

Landowner is the owner of agricultural land shown on the map attached as Exhibit A and designated there as LOT 3V 1, 2, 4-7 ("landowner's land"). Permittee agrees to apply and landowner agrees to comply with certain permit requirements following application of biosolids on landowner's land in amounts and in a manner authorized by (VPA) (VPDES) permit number _____ which is held by the Permittee.

Landowner acknowledges that the appropriate application of biosolids will be beneficial in providing fertilizer and soil conditioning to the property and consents to the application of biosolids on his property. Moreover, landowner acknowledges having been expressly advised that, in order to protect public health:

1. Public access to landowner's land upon which biosolids have been applied should be controlled for at least 30 days following any application of biosolids and no biosolids amended soil shall be excavated or removed from the site during this same period of time unless adequate provisions are made to prevent public exposure to soil, dusts or aerosols;
2. Food crops with harvested parts that touch the biosolids/soil mixture and are totally above the land surface shall not be harvested for 14 months after the application of biosolids. Food crops with harvested parts below the surface of the land shall not be harvested for 20 months after the application of biosolids when the biosolids remain on the land surface for a time period of four (4) or more months prior to incorporation into the soil, or 38 months when the biosolids remain on the land surface for a time period of less than four (4) months prior to incorporation. Other food crops, feed crops and fiber crops shall not be harvested for 30 days after the application of biosolids;
3. Following biosolids application to pasture or hayland sites, meat producing livestock should not be grazed or fed chopped foliage for 30 days and lactating dairy animals should be similarly restricted for a minimum of 60 days. Other animals should be restricted from grazing for 30 days;
4. Supplemental commercial fertilizer or manure applications should be coordinated with the biosolids applications such that the total crop needs for nutrients are not exceeded as identified in the nutrient management plan developed by a person certified in accordance with §10.1-104.2 of the Code of Virginia to be supplied to the landowner by the permittee at the time of application of biosolids to a specific permitted site;
5. Tobacco, because it has been shown to accumulate cadmium, should not be grown on landowner's land for three years following the application of biosolids borne cadmium equal to or exceeding 0.45 pounds/acre (0.5 kilograms/hectare);
6. Turf grown on land where biosolids are applied shall not be harvested for one year after application of biosolids when the harvested turf is placed on either land with a high potential for public exposure or a lawn, unless otherwise specified by the permitting authority.

The landowner agrees to allow county officials access to the area of the property permitted for biosolids, whenever necessary, to complete site inspections related to the scheduled biosolids program.

Permittee agrees to notify landowner or landowner designee of the proposed schedule for biosolids application and specifically prior to any particular application to landowner's land. This agreement may be terminated by either party upon written notice to the address specified below.

Landowner Signature:

Lynn J. Vaughan

Mailing Address:

3886 Bethel Church Rd.
Green Bay Va. 23942

Farm Operator Signature:

Mailing Address:

Permittee:

Recyc Systems, Inc.

Mailing Address:

P.O. Box 562
Remington Virginia 22734
(540) 547-3300

**VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION
FORM D: MUNICIPAL EFFLUENT AND BIOSOLIDS**

PART D-VI: LAND APPLICATION AGREEMENT - BIOSOLIDS AND INDUSTRIAL RESIDUALS

A. This land application agreement is made on 1-19-2021 between Richard Cavey referred to here as "Landowner", and Recyc Systems, Inc. referred to here as the "Permittee". This agreement remains in effect until it is terminated in writing by either party or, with respect to those parcels that are retained by the Landowner in the event of a sale of one or more parcels, until ownership of all parcels changes. If ownership of individual parcels identified in this agreement changes, those parcels for which ownership has changed will no longer be authorized to receive biosolids or industrial residuals under this agreement.

Landowner:

The Landowner is the owner of record of the real property located in Lunenburg, Virginia, which includes the agricultural, silvicultural or reclamation sites identified below in Table 1 and identified on the tax map(s) with county documentation identifying owners, attached as Exhibit A.

Table 1.: Parcels authorized to receive biosolids, water treatment residuals or other industrial sludges			
Tax Parcel ID	Tax Parcel ID	Tax Parcel ID	Tax Parcel ID
	<u>3-A-7</u>		

☐ Additional parcels containing Land Application Sites are identified on Supplement A (check if applicable)

Check one: ☐ The Landowner is the sole owner of the properties identified herein.
☒ The Landowner is one of multiple owners of the properties identified herein.

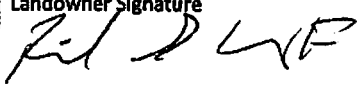
In the event that the Landowner sells or transfers all or part of the property to which biosolids have been applied within 38 months of the latest date of biosolids application, the Landowner shall:

1. Notify the purchaser or transferee of the applicable public access and crop management restrictions no later than the date of the property transfer; and
2. Notify the Permittee of the sale within two weeks following property transfer.

The Landowner has no other agreements for land application on the fields identified herein. The Landowner will notify the Permittee immediately if conditions change such that the fields are no longer available to the Permittee for application or any part of this agreement becomes invalid or the information herein contained becomes incorrect.

The Landowner hereby grants permission to the Permittee to land apply residuals as specified below, on the agricultural sites identified above and in Exhibit A. The Landowner also grants permission for DEQ staff to conduct inspections on the land identified above, before, during or after land application of permitted residuals for the purpose of determining compliance with regulatory requirements applicable to such application.


Class B biosolids Water treatment residuals Food processing waste Other industrial sludges
☒ Yes ☐ No ☒ Yes ☐ No ☒ Yes ☐ No ☒ Yes ☐ No

Printed name <u>RICHARD S CAVEY SR</u>	Mailing Address <u>37230 Asher RD</u> <u>MECHANICSVILLE MD, 20659</u>	Landowner Signature 
By: <u>OWNER</u>	Phone No. <u>301 643-6905</u>	
* <input type="checkbox"/> I certify that I have authority to sign for the landowner as indicated by my title as executor, Trustee or Power of attorney, etc.		
* <input type="checkbox"/> I certify that I am a responsible official (or officer) authorized to act on behalf of the following corporation, partnership, proprietorship, LLC, municipality, state or federal agency, etc.		

Permittee:

Recyc Systems, Inc., the Permittee, agrees to apply biosolids and/or industrial residuals on the Landowner's land in the manner authorized by the VPA Permit Regulation and in amounts not to exceed the rates identified in the nutrient management plan prepared for each land application field by a person certified in accordance with §10.1-104.2 of the Code of Virginia.

The Permittee agrees to notify the Landowner or the Landowner's designee of the proposed schedule for land application and specifically prior to any particular application to the Landowner's land. Notice shall include the source of residuals to be applied.

Printed name <u>Susan Trumbo</u>	Mailing Address <u>PO Box 562, Remington Virginia 22734</u>	Permittee Authorized Representative Signature 
Title <u>Technical Manager</u>	Phone No. <u>540-547-3300</u>	

Permittee: Recvc Systems, Inc

County or City: Lunenburg

Landowner: RICHARD S. CAVEY JR.

Landowner Site Management Requirements:

I, the Landowner, I have received a DEQ Biosolids Fact Sheet that includes information regarding regulations governing the land application of biosolids, the components of biosolids and proper handling and land application of biosolids.

I have also been expressly advised by the Permittee that the site management requirements and site access restrictions identified below must be complied with after biosolids have been applied on my property in order to protect public health, and that I am responsible for the implementation of these practices.

I agree to implement the following site management practices at each site under my ownership following the land application of biosolids at the site:

1. Notification Signs: I will not remove any signs posted by the Permittee for the purpose of identifying my field as a biosolids land application site, unless requested by the Permittee, until at least 30 days after land application at that site is completed.
2. Public Access
 - a. Public access to land with a high potential for public exposure shall be restricted for at least one year following any application of biosolids.
 - b. Public access to land with a low potential for public exposure shall be restricted for at least 30 days following any application of biosolids. No biosolids amended soil shall be excavated or removed from the site during this same period of time unless adequate provisions are made to prevent public exposure to soil, dusts or aerosols;
 - c. Turf grown on land where biosolids are applied shall not be harvested for one year after application of biosolids when the harvested turf is placed on either land with a high potential for public exposure or a lawn, unless otherwise specified by DEQ.
3. Crop Restrictions:
 - a. Food crops with harvested parts that touch the biosolids/soil mixture and are totally above the land surface shall not be harvested for 14 months after the application of biosolids.
 - b. Food crops with harvested parts below the surface of the land shall not be harvested for 20 months after the application of biosolids when the biosolids remain on the land surface for a time period of four (4) or more months prior to incorporation into the soil,
 - c. Food crops with harvested parts below the surface of the land shall not be harvested for 38 months when the biosolids remain on the land surface for a time period of less than four (4) months prior to incorporation.
 - d. Other food crops and fiber crops shall not be harvested for 30 days after the application of biosolids;
 - e. Feed crops shall not be harvested for 30 days after the application of biosolids (60 days if fed to lactating dairy animals).
4. Livestock Access Restrictions:

Following biosolids application to pasture or hayland sites:

 - a. Meat producing livestock shall not be grazed for 30 days,
 - b. Lactating dairy animals shall not be grazed for a minimum of 60 days.
 - c. Other animals shall be restricted from grazing for 30 days;
5. Supplemental commercial fertilizer or manure applications will be coordinated with the biosolids and industrial residuals applications such that the total crop needs for nutrients are not exceeded as identified in the nutrient management plan developed by a person certified in accordance with §10.1-104.2 of the Code of Virginia;
6. Tobacco, because it has been shown to accumulate cadmium, should not be grown on the Landowner's land for three years following the application of biosolids or industrial residuals which bear cadmium equal to or exceeding 0.45 pounds/acre (0.5 kilograms/hectare).

Richard S. Cavey Jr.
Landowner's Signature

1-19-2021
Date

Operator's Signature

mailing address & phone

Date

**VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION
FORM D: MUNICIPAL EFFLUENT AND BIOSOLIDS**

PART D-VI: LAND APPLICATION AGREEMENT - BIOSOLIDS AND INDUSTRIAL RESIDUALS

A. This land application agreement is made on 1-19-2021 between BRENDA COOK referred to here as "Landowner", and Recyc Systems, Inc. referred to here as the "Permittee". This agreement remains in effect until it is terminated in writing by either party or, with respect to those parcels that are retained by the Landowner in the event of a sale of one or more parcels, until ownership of all parcels changes. If ownership of individual parcels identified in this agreement changes, those parcels for which ownership has changed will no longer be authorized to receive biosolids or industrial residuals under this agreement.

Landowner:

The Landowner is the owner of record of the real property located in Lunenburg, Virginia, which includes the agricultural, silvicultural or reclamation sites identified below in Table 1 and identified on the tax map(s) with county documentation identifying owners, attached as Exhibit A.

Table 1.: Parcels authorized to receive biosolids, water treatment residuals or other industrial sludges			
Tax Parcel ID	Tax Parcel ID	Tax Parcel ID	Tax Parcel ID
	<u>S-A-7</u>		

☐ Additional parcels containing Land Application Sites are identified on Supplement A (check if applicable)

Check one: ☐ The Landowner is the sole owner of the properties identified herein.
☒ The Landowner is one of multiple owners of the properties identified herein.

In the event that the Landowner sells or transfers all or part of the property to which biosolids have been applied within 38 months of the latest date of biosolids application, the Landowner shall:

1. Notify the purchaser or transferee of the applicable public access and crop management restrictions no later than the date of the property transfer; and
2. Notify the Permittee of the sale within two weeks following property transfer.

The Landowner has no other agreements for land application on the fields identified herein. The Landowner will notify the Permittee immediately if conditions change such that the fields are no longer available to the Permittee for application or any part of this agreement becomes invalid or the information herein contained becomes incorrect.

The Landowner hereby grants permission to the Permittee to land apply residuals as specified below, on the agricultural sites identified above and in Exhibit A. The Landowner also grants permission for DEQ staff to conduct inspections on the land identified above, before, during or after land application of permitted residuals for the purpose of determining compliance with regulatory requirements applicable to such application.

<u>Class B biosolids</u>	<u>Water treatment residuals</u>	<u>Food processing waste</u>	<u>Other industrial sludges</u>
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Printed name <u>BRENDA COOK</u>	Mailing Address <u>P.O. Box 7867 INDIAN LAKE EST. FLORIDA 33855</u>	Landowner Signature <u>James A Russell</u>
By: <u>JAMES A RUSSELL</u>	Phone No. <u>240 216-9682</u>	
Title: <u>POWER OF ATTORNEY</u>		
<input checked="" type="checkbox"/> I certify that I have authority to sign for the landowner as indicated by my title as executor, Trustee or Power of attorney, etc. <input type="checkbox"/> I certify that I am a responsible official [or officer] authorized to act on behalf of the following corporation, partnership, proprietorship, LLC, municipality, state or federal agency, etc.		

Permittee:

Recyc Systems, Inc., the Permittee, agrees to apply biosolids and/or industrial residuals on the Landowner's land in the manner authorized by the VPA Permit Regulation and in amounts not to exceed the rates identified in the nutrient management plan prepared for each land application field by a person certified in accordance with §10.1-104.2 of the Code of Virginia.

The Permittee agrees to notify the Landowner or the Landowner's designee of the proposed schedule for land application and specifically prior to any particular application to the Landowner's land. Notice shall include the source of residuals to be applied.

Printed name <u>Susan Trumbo</u>	Mailing Address <u>PO Box 562, Remington Virginia 22734</u>	Permittee- Authorized Representative Signature <u>[Signature]</u>
Title <u>Technical Manager</u>	Phone No. <u>540-547-3300</u>	

Permittee: Recyc Systems, Inc

County

or City: Lunenburg

Landowner: BRENDA COOK

Landowner Site Management Requirements:

I, the Landowner, I have received a DEQ Biosolids Fact Sheet that includes information regarding regulations governing the land application of biosolids, the components of biosolids and proper handling and land application of biosolids.

I have also been expressly advised by the Permittee that the site management requirements and site access restrictions identified below must be complied with after biosolids have been applied on my property in order to protect public health, and that I am responsible for the implementation of these practices.

I agree to implement the following site management practices at each site under my ownership following the land application of biosolids at the site:

1. Notification Signs: I will not remove any signs posted by the Permittee for the purpose of identifying my field as a biosolids land application site, unless requested by the Permittee, until at least 30 days after land application at that site is completed.
2. Public Access
 - a. Public access to land with a high potential for public exposure shall be restricted for at least one year following any application of biosolids.
 - b. Public access to land with a low potential for public exposure shall be restricted for at least 30 days following any application of biosolids. No biosolids amended soil shall be excavated or removed from the site during this same period of time unless adequate provisions are made to prevent public exposure to soil, dusts or aerosols;
 - c. Turf grown on land where biosolids are applied shall not be harvested for one year after application of biosolids when the harvested turf is placed on either land with a high potential for public exposure or a lawn, unless otherwise specified by DEQ.
3. Crop Restrictions:
 - a. Food crops with harvested parts that touch the biosolids/soil mixture and are totally above the land surface shall not be harvested for 14 months after the application of biosolids.
 - b. Food crops with harvested parts below the surface of the land shall not be harvested for 20 months after the application of biosolids when the biosolids remain on the land surface for a time period of four (4) or more months prior to incorporation into the soil,
 - c. Food crops with harvested parts below the surface of the land shall not be harvested for 38 months when the biosolids remain on the land surface for a time period of less than four (4) months prior to incorporation.
 - d. Other food crops and fiber crops shall not be harvested for 30 days after the application of biosolids;
 - e. Feed crops shall not be harvested for 30 days after the application of biosolids (60 days if fed to lactating dairy animals).
4. Livestock Access Restrictions:

Following biosolids application to pasture or hayland sites:

 - a. Meat producing livestock shall not be grazed for 30 days,
 - b. Lactating dairy animals shall not be grazed for a minimum of 60 days.
 - c. Other animals shall be restricted from grazing for 30 days;
5. Supplemental commercial fertilizer or manure applications will be coordinated with the biosolids and industrial residuals applications such that the total crop needs for nutrients are not exceeded as identified in the nutrient management plan developed by a person certified in accordance with §10.1-104.2 of the Code of Virginia;
6. Tobacco, because it has been shown to accumulate cadmium, should not be grown on the Landowner's land for three years following the application of biosolids or industrial residuals which bear cadmium equal to or exceeding 0.45 pounds/acre (0.5 kilograms/hectare).

James A Russell

Landowner's Signature

1-19-2021

Date

Operator's Signature

mailing address & phone

Date

Recyc Systems, Inc

Lynn J. Vaughan Site

County	Owner	Operator	FSA Tract No.	Recyc Field No.	Acres	Date of Last Application
Lumenburg	Lynn J. Vaughan	Lynn J. Vaughan	T3531 Field 1,2,3,12	LUIUV 1	19.3	10/06
			T3531 Field 4,5,7,8	LUIUV 2	32.4	10/06
			T3532 Field 5	LUIUV 2 (partial)		
			T3532 Field 1,3,4	LUIUV 4	23.5	10/06
			T3533 Field 1,2	LUIUV 5	10.6	10/06
			T3531 Field 15	LUIUV 6	27.1	12/07
			T3531 Field 14	LUIUV 7	31.6	12/07
			T3532 Field 7	LUIUV 8	11.9	12/07

RECYC SYSTEMS, INC

FIELD DATA SHEET

Field Identification	Gross Acres	Environmentally Sensitive Soils				Hydro Map	Tax Map #	FSA Tract #
		Water Table	Bed Rock/Shallow	Surf/Leach	Freq Flood			
LULJV 1	19.3	-	-	-	-	CU01	TM5A, P4,16,17	3531
LULJV 2	32.4	-	-	-	-	CU01	TM5A,P16,17	3531 3532
LULJV 4	23.5	10C2	-	-	=	CU01	TM5A,P5	3532
LULJV 5	10.6	-	-	-	=	CU01	TM5A,P8	3533
LULJV 6	27.1	10B	-	-	=	CU01	TM5A,P16,17	3531
LULJV 7	31.6	-	-	-	-	CU01	TM5A,P16,17	3531
LULJV 8	11.9	10C2	-	-	-	CU01	TM5A,P5,16,17	3532
TOTAL ACRES IN SITE	156.4							

Report Number:

R06045-0018

Account Number:

70594

A&L Eastern Laboratories, Inc.

7621 Whitepine Road Richmond, Virginia 23237 (804) 743-9401
Fax No. (804) 271-6446 Email: office@al-labs-eastern.com



Send To: RECYC SYSTEMS INC
POB 562
REMINGTON, VA 22734

Grower: LYNN J VAUGHAN
LUNENBURG CO

Submitted By: MARVIN MINOR

SOIL ANALYSIS REPORT

Page: 1

Date Received: 2/13/2006

Date of Analysis: 2/14/2006

Date of Report: 2/15/2006

Analytical Method(s):
Mehlich III

Page: 1

Date Received: 2/13/2006

Date of Analysis: 2/14/2006

Date of Report: 2/16/2006

Sample Number	Lab Number	Organic Matter			Phosphorus			Potassium		Magnesium		Calcium		Sodium		pH		Acidity	C.E.C.
		%	ENR lbs/A	Rate	Available ppm	Rate	Reserve ppm	Rate	K ppm	Rate	MG ppm	Rate	CA ppm	Rate	NA ppm	Rate	Soil pH	Buffer Index	H meq/100g
LULJV6	1185118512	2.8	97	M	5	VL		79	M	135	H	530	L			5.2	6.7	2.1	6.0
LULJV7	11852	2.3	89	L	5	VL		63	L	105	H	520	M			5.7	6.8	1.0	4.6
LULJV8	11853	3.3	104	M	33	M		76	L	230	H	940	M			5.7	6.8	1.8	8.6

Sample Number	Percent Base Saturation					Nitrate	Sulfur	Zinc	Manganese	Iron	Copper	Boron	Soluble Salts	Chloride	Aluminum									
	K %	Mg %	Ca %	Na %	H %	NO3-N ppm	Rate	SO4-S ppm	Rate	ZN ppm	Rate	MN ppm	Rate	FE ppm	Rate	CU ppm	Rate	B ppm	Rate	ms/cm	Rate	CL ppm	Rate	AL ppm
HILJV6	3.4	18.6	139.9		34.1																			
LULJV7	3.5	190	56.4		21.1																			
LULJV8	23	222	545		21.1																			

ALE 8/04

Values on this report represent the plant available nutrients in the soil.

Rating after each value: VL (Very Low), L (Low), M (Medium), H (High), VH (Very High).

ENR - Estimated Nitrogen Release. C.E.C. - Cation Exchange Capacity.

Explanation of symbols: % (percent), ppm (parts per million), lbs/A (pounds per acre),
ms/cm (milli-mhos per centimeter), meq/100g (milli-equivalent per 100 grams).
Conversions: ppm x 2 = lbs/A, Soluble Salts ms/cm x 640 = ppm.

This report applies to the sample(s) tested. Samples are retained a maximum of thirty days after testing. Soil Analysis prepared by:
A & L EASTERN LABORATORIES, INC.

by:

Paul Chu
Paul Chu, Ph.D.

Report Number:

2005-R164-091

Account # 70594

A&L EASTERN AGRICULTURAL LABORATORIES, INC.

7621 Whitepine Road • Richmond, Virginia 23237 • (804) 743-9401

Fax No. (804) 271-6446 • Email: office@al-labs-eastern.com



Send To: RECYC SYSTEMS INC
POB 562
REMINGTON, VA 22734

Grower: LYNN J VAUGHAN
LUNENBURG CO

Samples Submitted By:
MARVIN MINOR

SOIL ANALYSIS REPORT

Page: 1

Date Received: 06/10/2005

Date of Analysis: 06/13/2005

Date of Report: 06/14/2005

Analytical Method:

Ammonium Acetate, Bray-P

Sample Number	Lab Number	Organic Matter		Phosphorus		Potassium	Magnesium	Calcium	Sodium	pH		Acidity	C.E.C.
		%	FINR - lbs/A	Available ppm	Reserve ppm	K Rate	MG Rate	CA Rate	NA Rate	Soil pH	Buffer Index	H meq/100g	meq/100g
LULJV1	1615	24.8	88 M	26 M	32 M	226 VH	183 VH	760 M		6.0	6.82	1.1	7.0
LULJV2	1616	21.8	84 M	18 M	31 M	135 VH	123 VH	770 M		6.3	6.87	0.6	5.8
LULJV3	1617	26.9	92 M	57 VH	99 VH	154 VH	145 VH	950 M		6.3	6.86	0.7	7.1
LULJV4	1618	23.8	87 M	43 VH	62 VH	122 H	130 VH	750 M		6.1	6.85	0.8	6.0
LULJV5	1619	18.7	78 LL	33 HH	44 H	290 VH	106 H	520 L		5.7	6.82	1.1	5.4

Sample Number	Percent Nitrogen					Nitrate	Sulfur	Zinc	Manganese	Iron	Copper	Boron	Soluble Salts	Chloride	Aluminum
	K %	NP %	PH %	NA %	H %	NO3-N ppm	SO4-S ppm	ZN ppm	MN ppm	FE ppm	CU ppm	B ppm	ms/cm Rate	CL ppm	AL ppm
LULUX1	83	219	544		154										
LULUX2	59	176	660		106										
LULUX3	56	170	669		106										
LULUX4	52	182	629		137										
LULUX5	139	166	485		211										

Values on this report represent the plant available nutrients in the soil.

Rating after each value: VL (Very Low), L (Low), M (Medium), H (High), VH (Very High).

ENR - Estimated Nitrogen Release. C.E.C. - Cation Exchange Capacity.

Explanation of symbols: % (percent), ppm (parts per million), lbs/A (pounds per acre),

ms/cm (milli-mhos per centimeter), meq/100g (milli-equivalent per 100 grams).

Conversions: ppm x 2 = lbs/A, Soluble Salts ms/cm x 640 = ppm.

This report applies to the sample(s) tested. Samples are retained a maximum of thirty days after testing. Soil Analysis prepared by: A & L EASTERN AGRICULTURAL LABORATORIES, INC.

by:

C. Norman Jones
C. Norman Jones

THE PLANNER IS NOT STATE CERTIFIED

Nutrient Management Plan Balance Sheet
(Fall, 2009-Winter, 2012)
Lynn J Vaughan
Planner: Recyc Systems Inc

Tract: 3531 Location: Lunenburg
(N = N based, 1P = P based, 1.5P = P based at 1.5 removal, 0P = No P allowed)

Field CFSA No. /Name	Size (ac) Total/ Used	Yr.	Crop	Needs N-P-K (lbs/ac)	Leg /Man Resid	Manure/Biosld Rate & Type (season)	IT (d)	Man/Bios N-P-K (lbs/ac)	Net = Needs - appld N-P-K (lbs/ac)	Sum P rem cred	Commercial N-P-K (lbs/ac)	Notes	
1 2 3 12/LULJV 1(N)	19/19	2009	Hay/Pasture	100-60-130	0/0				100-60-130	N/A			
4 5 7 8/LULJV 2(N)	32/32	2009	Hay/Pasture	100-70-130	0/0				100-70-130	N/A			
15/LULJV 6(N)	27/27	2009	Hay/Pasture	100-90-95	0/0				100-90-95	N/A			
14/LULJV 7(N)	14/14	2009	Hay/Pasture	100-90-110	0/0				100-90-110	N/A			
7/LULJV 8(N)	12/12	2009	Hay/Pasture	100-50-95	0/0				100-50-95	N/A			

Tract: 3532 Location: Lunenburg
(N = N based, 1P = P based, 1.5P = P based at 1.5 removal, 0P = No P allowed)

Field CFSA No. /Name	Size (ac) Total/ Used	Yr.	Crop	Needs N-P-K (lbs/ac)	Leg /Man Resid	Manure/Biosld Rate & Type (season)	IT (d)	Man/Bios N-P-K (lbs/ac)	Net = Needs - appld N-P-K (lbs/ac)	Sum P rem cred	Commercial N-P-K (lbs/ac)	Notes	
1 3 4/LULJV 4(N)	24/24	2009	Hay/Pasture	100-40-110	0/0				100-40-110	N/A			

Tract: 3533 Location: Lunenburg
(N = N based, 1P = P based, 1.5P = P based at 1.5 removal, 0P = No P allowed)

Field CFSA No. /Name	Size (ac) Total/ Used	Yr.	Crop	Needs N-P-K (lbs/ac)	Leg /Man Resid	Manure/Biosld Rate & Type (season)	IT (d)	Man/Bios N-P-K (lbs/ac)	Net = Needs - appld N-P-K (lbs/ac)	Sum P rem cred	Commercial N-P-K (lbs/ac)	Notes	
1 2/LULJV 5(N)	11/11	2009	Hay/Pasture	100-50-120	0/0				100-50-120	N/A			

Commercial Application Methods:
br - Broadcast ba - Banded sd - Sidedress

Notes:

THE PLANNER IS NOT STATE CERTIFIED

Lynn J Vaughan Narrative

This is LynnJ Vaughan farm located in Lunenburg County. The Farm Consists of hay/pasture Fields.

This is a partial plan written for the purpose of obtaining a biosolids permit. Biosolids application had not been shown since it is certain when a permit will be obtained. The partial plan will be revised prior to biosolids application to obtain a target biosolids application rate.

Soil Test Summary

Tract	Field	Acre	Date	P205	K20	Lab	Soil pH	Lime Date	rec. lime tons/Ac
3531	LULJV 1	19	2005-Sp	M- (26 P ppm)	L (32 K ppm)	A&L Mill	6.		
3531	LULJV 2	32	2005-Sp	L+ (18 P ppm)	L (31 K ppm)	A&L Mill	6.3		
3531	LULJV 6	27	2006-Wi	L- (5 P ppm)	M (79 K ppm)	A&L Mill	5.2		
3531	LULJV 7	14	2006-Wi	L- (5 P ppm)	M- (63 K ppm)	A&L Mill	5.7		
3531	LULJV 8	12	2006-Wi	M (33 P ppm)	M (76 K ppm)	A&L Mill	5.7		
3532	LULJV 4	24	2005-Sp	M+ (43 P ppm)	M- (62 K ppm)	A&L Mill	6.1		
3533	LULJV 5	11	2005-Sp	M (33 P ppm)	L+ (44 K ppm)	A&L Mill	5.7		

Field Productivities for Major Crops

Tract Name	Tract/ Field	Field Name	Acres	Predominant Soil Series	Corn	Small Grain	Alfalfa	Grass Hay	Environmental Warnings
3531	3531/1 2 3 1	LULJV 1	19	Cecil	IVb	IV	III	IV	High Slope
	3531/4 5 7 8	LULJV 2	32	Cecil	IVb	IV	III	IV	
	3531/15	LULJV 6	27	Cecil	V	IV	III	IV	
	3531/14	LULJV 7*	14	Mecklenburg	IVb	IV	III	IV	
	3531/7	LULJV 8	12	Cecil	IVb	IV	III	IV	
3532	3532/1 3 4	LULJV 4	24	Cecil	IVb	IV	III	IV	
3533	3533/1 2	LULJV 5	11	Cecil	IVb	IV	III	IV	

* Do not apply manure or biosolids more than 30 days prior to planting. Apply commercial fertilizer nitrogen to row crops in split spring applicaions.

Yield Range

Field Productivity Group	Corn Grain Bu/Acre	Barley/Intensive Wheat Bu/Acre	Std. Wheat Bu/Acre	Alfalfa Tons/Acre	Grass/Hay Tons/Acre
I	≥170	≥80	≥64	≥6	≥4.0
II	150-170	70-80	56-64	4-6	3.5-4.0
III	130-150	60-70	48-56	≤4	3.0-3.5
IV	100-130	50-60	40-48	NA	≤3.0
V	≤100	≤50	≤40	NA	NA

Farm Summary Report

Plan: New Plan Fall, 2009 - Winter, 2012

Farm Name: Lynn J Vaughan
Location: Lunenburg
Specialist: Recyc Systems Inc

Tract Name: 3531
FSA Number: 3531
Location: Lunenburg

Field Name: LULJV 1
Total Acres: 19.30 **Usable Acres:** 19.30
FSA Number: 1 2 3 12
Tract: 3531
Location: Lunenburg
Slope Class: C **Hydrologic Group:** B

Riparian buffer width: 0 ft
Distance to stream: 0 ft

Conservation Practices:

Pasture (>75% cover)

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE	PH	P	K		Lab
Sp-2005	6.0	M-(26 P ppm)	L(32 K ppm)	A&L MIII	

Soils:

PERCENT	SYMBOL	SOIL SERIES
60	5B2	Cecil
30	5C2	Cecil

10

19D2 Pacolet

Field Warnings:

Crop Rotation:

PLANTED	YIELD	CROP NAME
2009-Fa	1.9 ton	Hay/Pasture - No Till

Field Name: LULJV 2

Total Acres: 32.40 Usable Acres: 32.40

FSA Number: 4 5 7 8

Tract: 3531

Location: Lunenburg

Slope Class: B Hydrologic Group: B

Riparian buffer width: 0 ft

Distance to stream: 0 ft

Conservation Practices:

Pasture (>75% cover)

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE	PH	P	K		Lab
Sp-2005	6.3	L+(18 P ppm)	L(31 K ppm)	A&L MIII	

Soils:

PERCENT	SYMBOL	SOIL SERIES
80	5B2	Cecil
20	5C2	Cecil

Field Warnings:

Crop Rotation:

PLANTED	YIELD	CROP NAME
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2009-Fa 1.9 ton Hay/Pasture - No Till

Field Name: LULJV 6

Total Acres: 27.10 Usable Acres: 27.10

FSA Number: 15

Tract: 3531

Location: Lunenburg

Slope Class: B Hydrologic Group: B

Riparian buffer width: 0 ft

Distance to stream: 0 ft

Conservation Practices:

Pasture (>75% cover)

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE	PH	P	K		Lab
Wi-2006	5.2	L-(5 P ppm)	M(79 K ppm)	A&L MIII	

Soils:

PERCENT	SYMBOL	SOIL SERIES
10 2	2C Ashlar	Ashlar
57 5B	5B2 Cecil	Cecil
20 5C	5C2 Cecil	Cecil
3 10	10B Helena	Helena
10 10C	10C2 Helena	Helena

Field Warnings:

Crop Rotation:

PLANTED	YIELD	CROP NAME
2009-Fa	1.8 ton	Hay/Pasture - No Till

Field Name: LULJV 7

Total Acres: 14.00 Usable Acres: 14.00
FSA Number: 14
Tract: 3531
Location: Lunenburg
Slope Class: C Hydrologic Group: C

Riparian buffer width: 0 ft
Distance to stream: 0 ft

Conservation Practices:

Pasture (>75% cover)

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE	PH	P	K		Lab
Wi-2006	5.7	L-(5 P ppm)	M-(63 K ppm)	A&L MIII	

Soils:

PERCENT	SYMBOL	SOIL SERIES
18	5B2	Cecil
15	5C2	Cecil
10	6	Augusta Chewacla Toccoa
10	16B2	Mecklenburg
43	16D2	Mecklenburg
4	19D2	Pacolet

Field Warnings:

Environmentally Sensitive Soils due to:

Soils with perent slope in excess of 15%

Crop Rotation:

PLANTED	YIELD	CROP NAME
2009-Fa	1.7 ton	Hay/Pasture - No Till

Field Name: LULJV 8

Total Acres: 11.90 Usable Acres: 11.90

FSA Number: 7

Tract: 3531

Location: Lunenburg

Slope Class: C Hydrologic Group: B

Riparian buffer width: 0 ft

Distance to stream: 0 ft

Conservation Practices:

Pasture (>75% cover)

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE	PH	P	K		Lab
Wi-2006	5.7	M(33 P ppm)	M(76 K ppm)	A&L MIII	

Soils:

PERCENT	SYMBOL	SOIL SERIES
41	5B2	Cecil
59	5C2	Cecil

Field Warnings:

Crop Rotation:

PLANTED	YIELD	CROP NAME
2009-Fa	1.9 ton	Hay/Pasture - No Till

Tract Name: 3532

FSA Number: 3532

Location: Lunenburg

Field Name: LULJV 4

Total Acres: 23.50 Usable Acres: 23.50
FSA Number: 1 3 4
Tract: 3532
Location: Lunenburg
Slope Class: B Hydrologic Group: B

Riparian buffer width: 0 ft
Distance to stream: 0 ft

Conservation Practices:

Pasture (>75% cover)

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE	PH	P	K		Lab
Sp-2005	6.1	M+(43 P ppm)	M-(62 K ppm)	A&L MIII	

Soils:

PERCENT	SYMBOL	SOIL SERIES
25	1B2	Appling
55	5B2	Cecil
15	5C2	Cecil
5	23D2	Wedowee

Field Warnings:

Crop Rotation:

PLANTED	YIELD	CROP NAME
2009-Fa	1.8 ton	Hay/Pasture - No Till

Tract Name: 3533

FSA Number: 3533

Location: Lunenburg

Field Name: LULJV 5

Total Acres: 10.60 Usable Acres: 10.60
FSA Number: 1 2
Tract: 3533
Location: Lunenburg
Slope Class: B Hydrologic Group: B

Riparian buffer width: 0 ft
Distance to stream: 0 ft

Conservation Practices:

Pasture (>75% cover)

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE	PH	P	K		Lab
Sp-2005	5.7	M(33 P ppm)	L+(44 K ppm)	A&L MIII	

Soils:

PERCENT	SYMBOL	SOIL SERIES
90	5B2 Cecil	
10	5C2 Cecil	

Field Warnings:

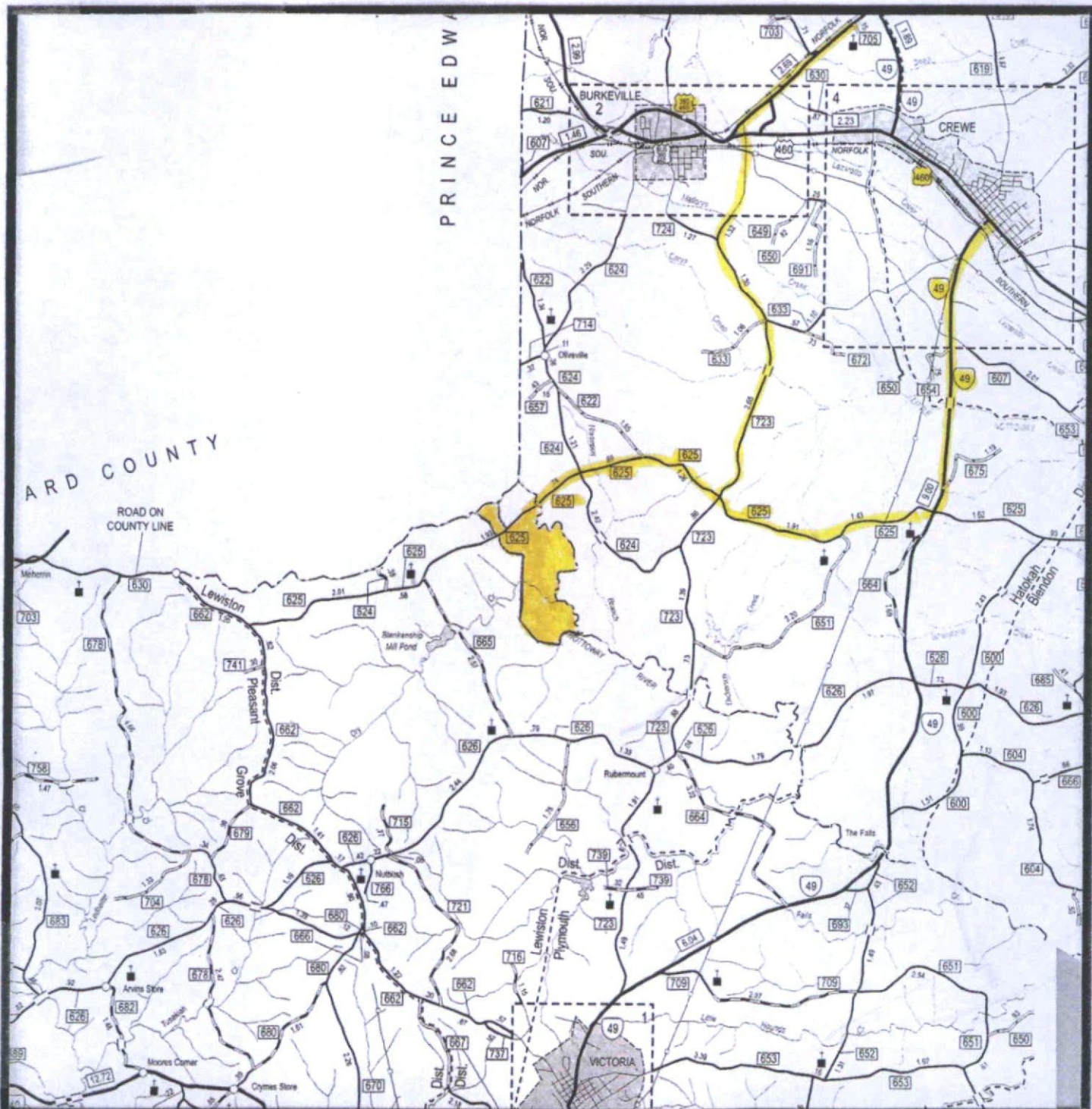
Crop Rotation:

PLANTED	YIELD	CROP NAME
2009-Fa	1.9 ton	Hay/Pasture - No Till

MAPS

Recyc SystemsTM Inc.

(Biosolids Land Application)



Scale: 1 inch = 2 miles

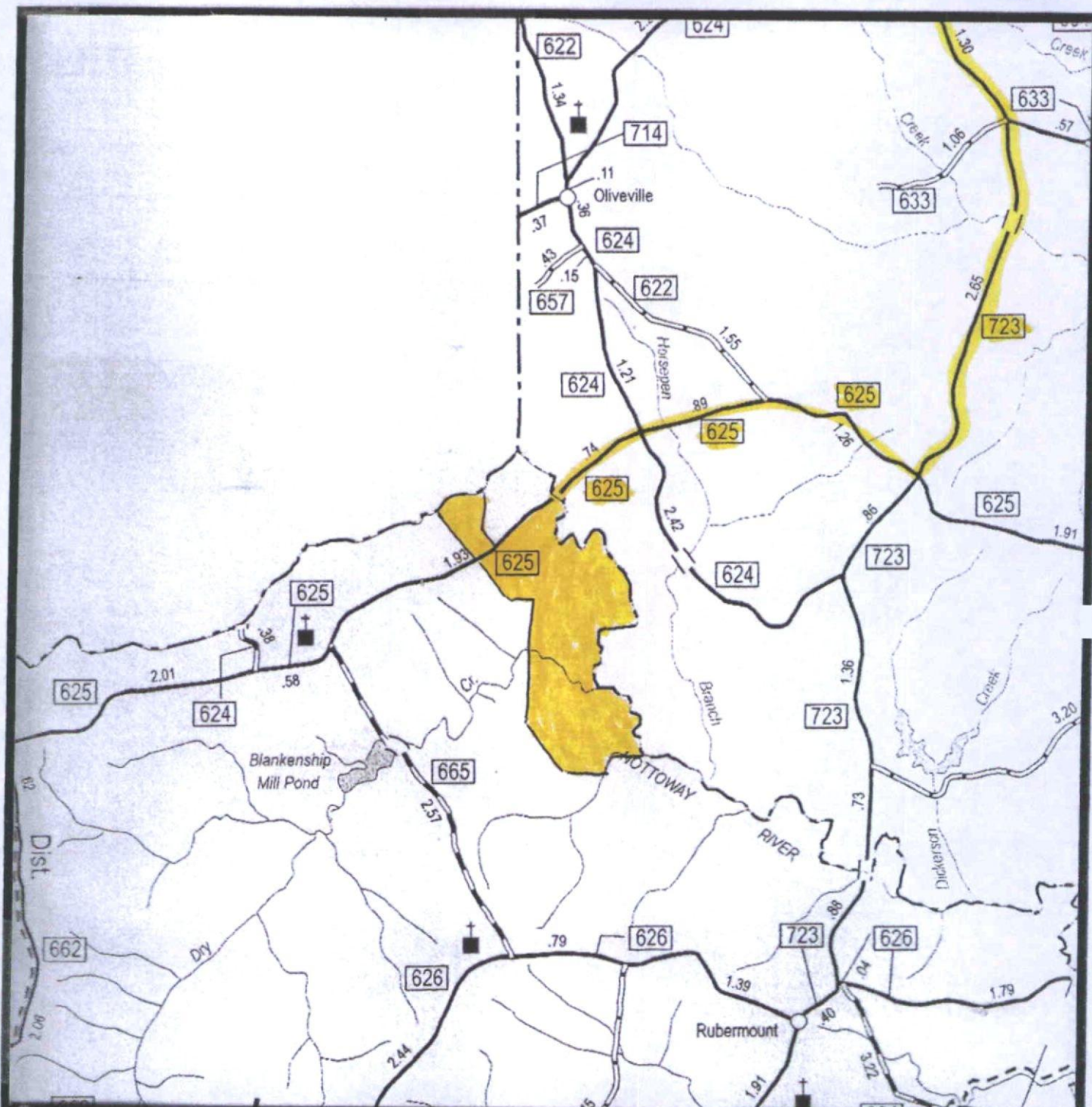
LULJV 1,2,4-8

VICINITY MAP



Inc.

(Biosolids Land Application)



Scale: 1 inch = 1 mile

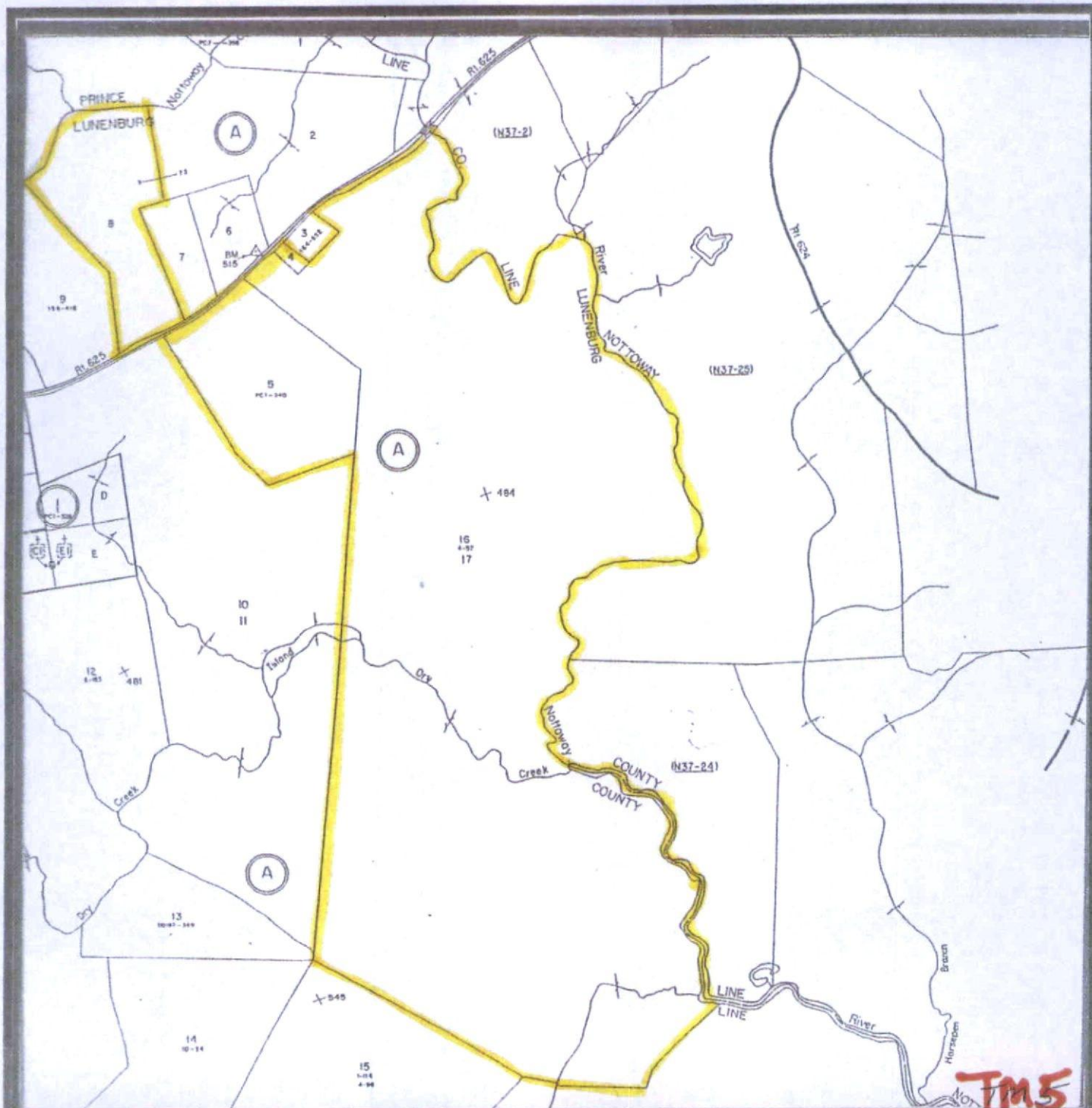
LULJV 1,2,4-8

VICINITY MAP



Recyc SystemsTM Inc.

(Biosolids Land Application)

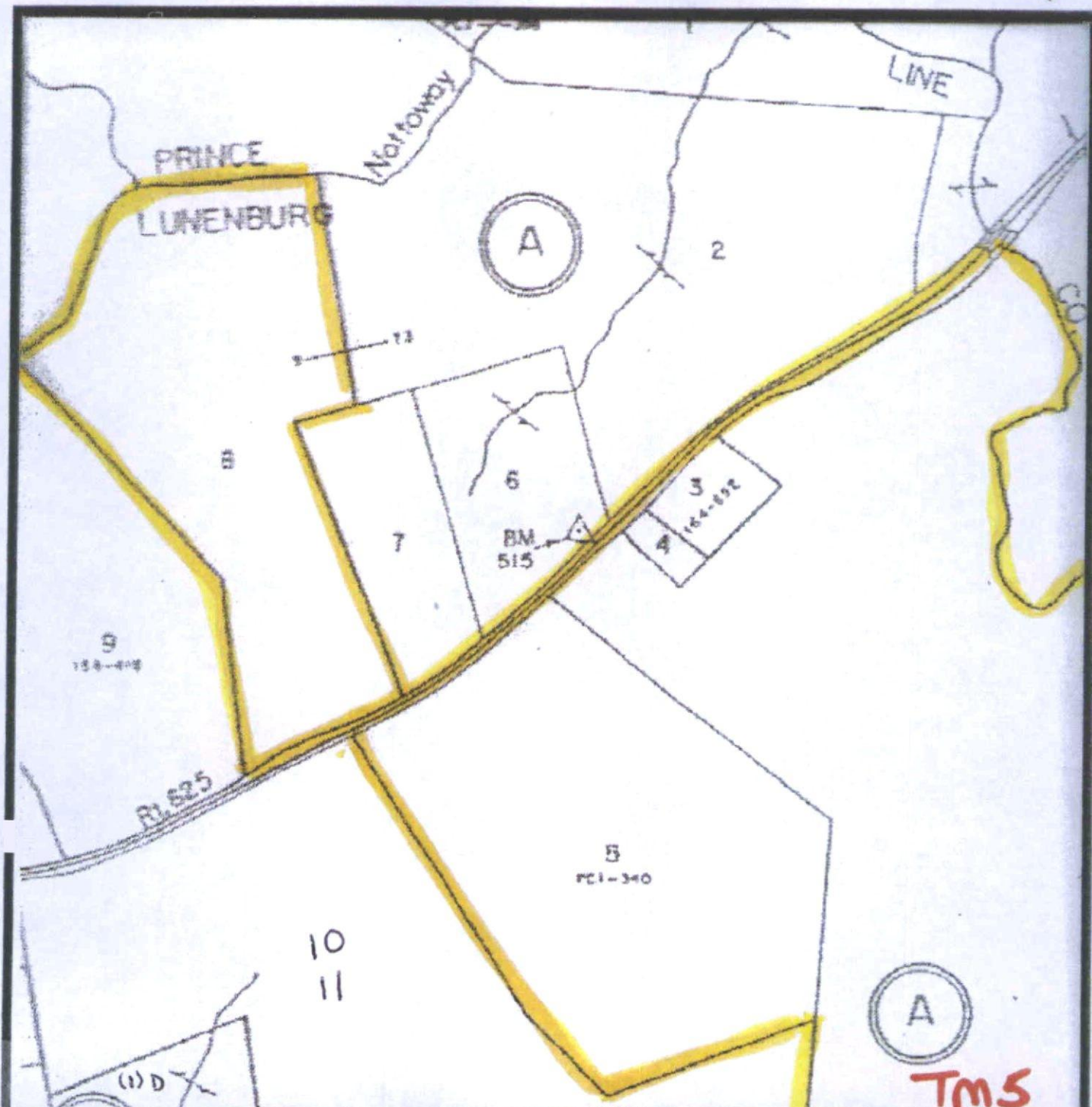


Scale: 1 inch = 1603 feet

LULJV 1,2,4-8

TAX MAP





Scale: 1 inch = 660 feet

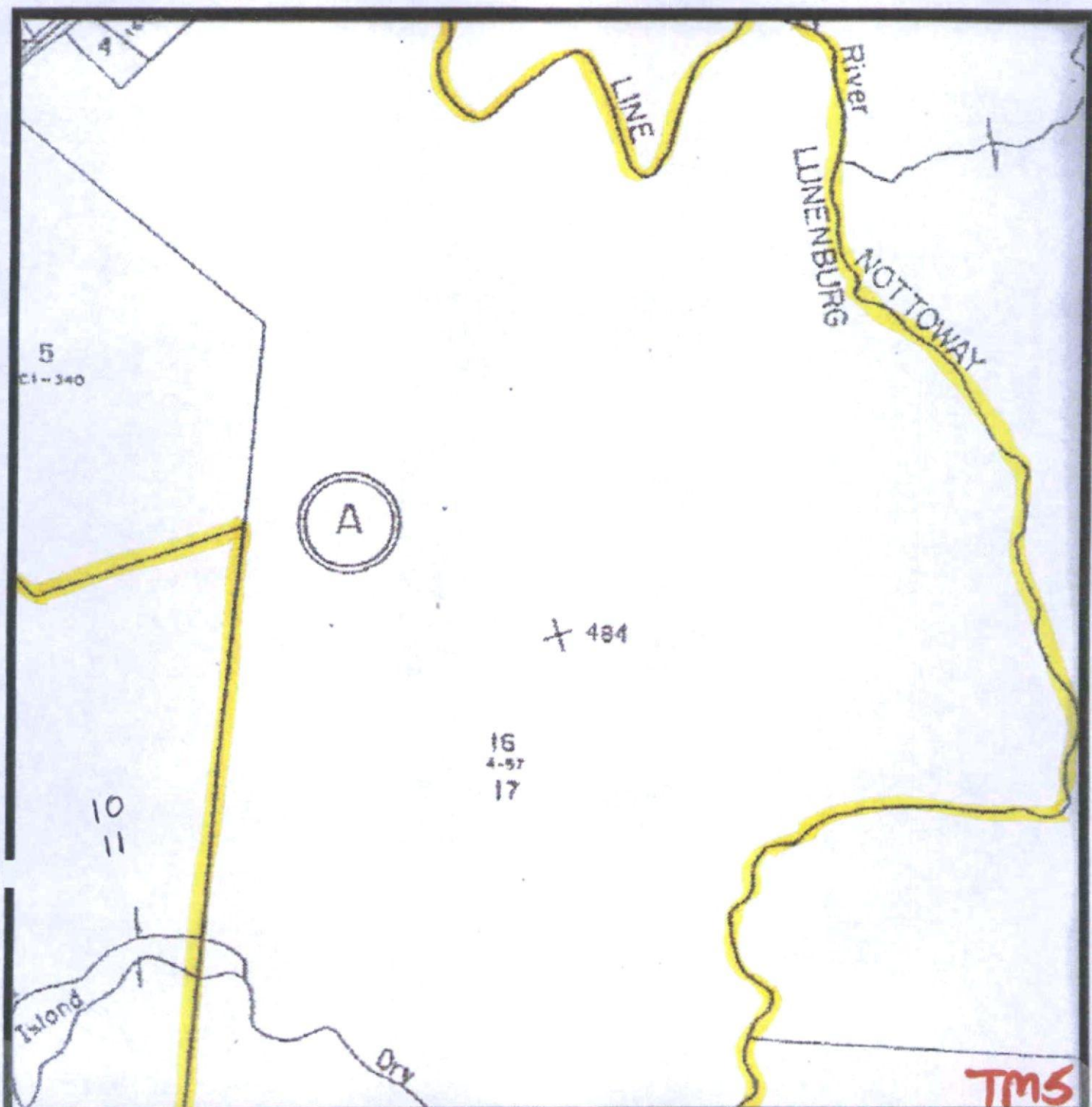
LULJV 1,2,4-8

TAX MAP



Recyc SystemsTM Inc.

(Biosolids Land Application)



Scale: 1 inch = 660 feet

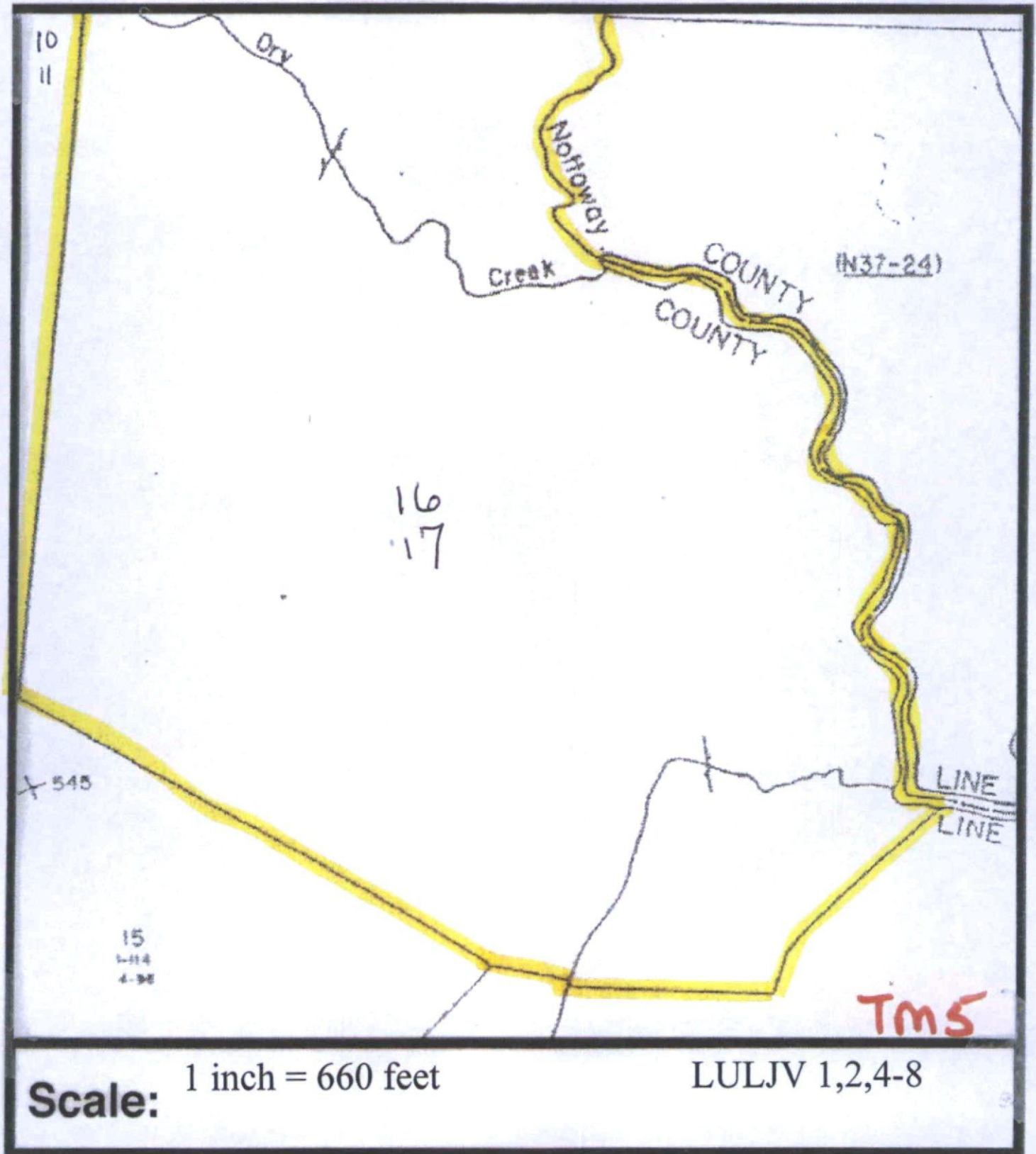
LULJV 1,2,4-8

TAX MAP



Recyc SystemsTM Inc.

(Biosolids Land Application)



TAX MAP



ADJOINING LANDOWNERS

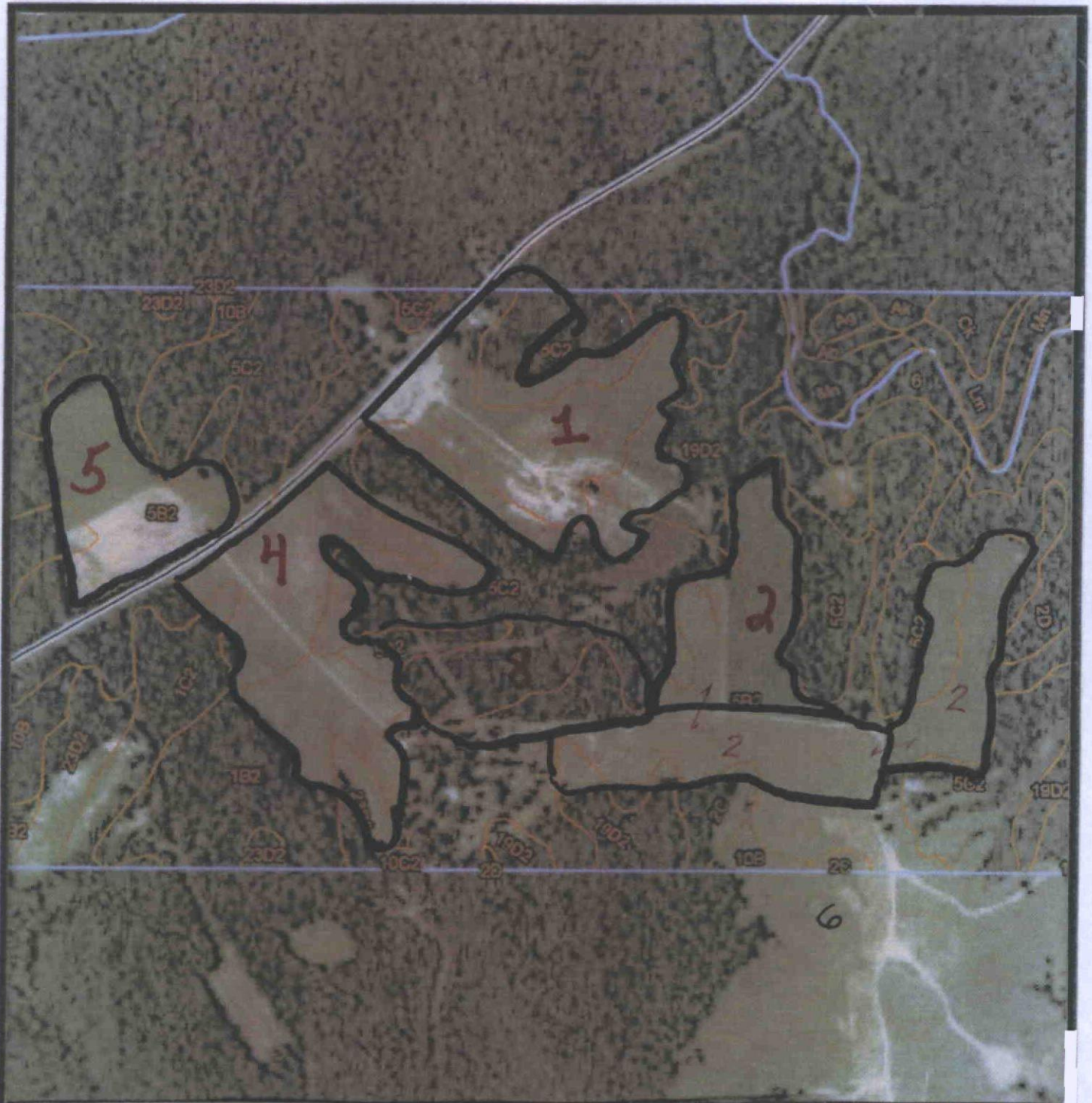
Lynn J. Vaughan Site

LUNENBURG COUNTY

Tax Map No.	Parcel No.	Owner(s) Name
5	2	Calvin Thomas & James Elwood Vaughan
5	3	Michael W. or Lisa M. Parson
5	6	Flossie V. Harris
5	7	Joyce B. & Richard S. Cavey
5	9	Macio H. or Hazel B. Hill
5	11	Weaver Land & Timber LLC
5	11A	Weaver Land & Timber LLC
5	13	William H. Robinson, Sr.
5	14	Edgar J. Banton
5	15	A/MAY/RAY, LLC
12	8	Why Not Partnership

Inc.

(Biosolids Land Application)



Scale: 1 inch = 660 feet

LULJV 1,2,4,5 & 8

SOIL MAP



Inc.

(Biosolids Land Application)

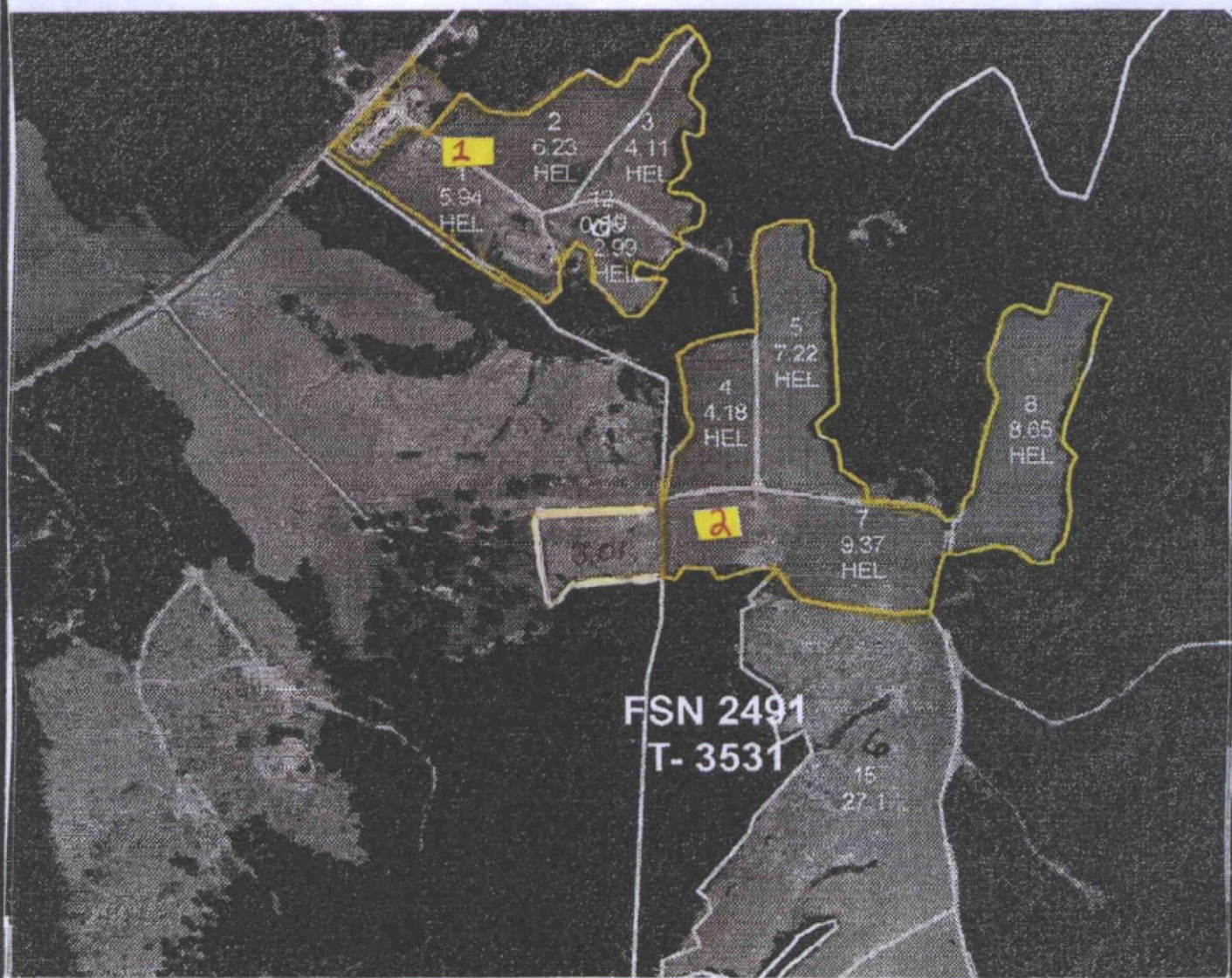


Scale: 1 inch = 660 feet

LULJV 6 & 7

SOIL MAP





Scale: 1 inch = 660 feet

LULJV 1 & 2

AERIAL MAP





Scale: 1 inch = 660 feet

LULJV 4,8 & part of 2

AERIAL MAP



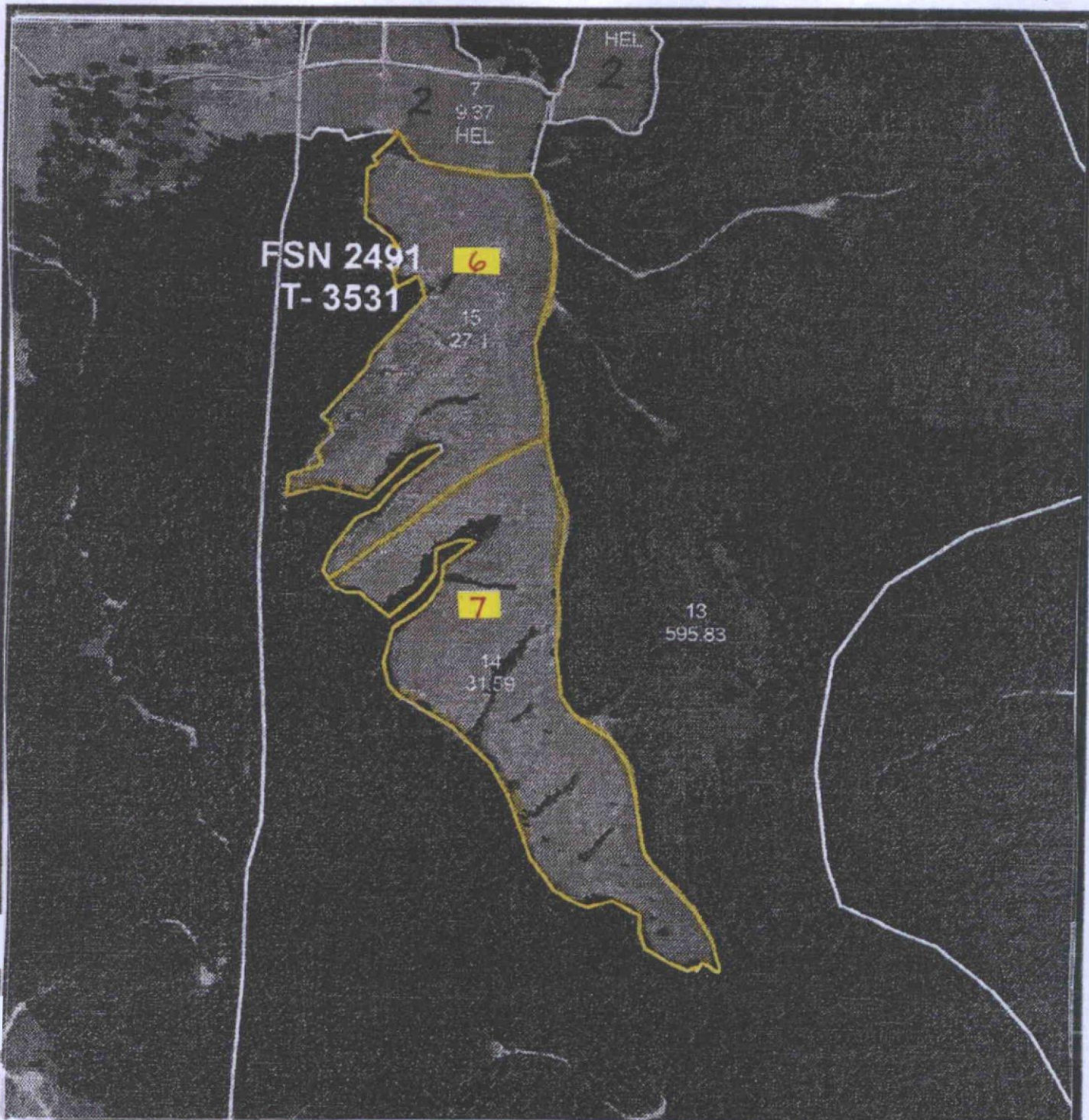


Scale: 1 inch = 660 feet

LULJV 5

AERIAL MAP





Scale: 1 inch = 660 feet

LULJV 6 & 7

AERIAL MAP



Legend for Site Plan

H/W

House and Well

W

Sp

Well / Spring



Perennial Streams & Surface



Wet Spot



Intermittent Stream / Drainage



Trees and Woods



Private Drive

R

Rock / Rocky Area

S

Sinkhole



Severely Eroded Spot



State Road



Field Boundary / Fence



Property Line



SL

Slope

FF

Frequent Flooded Soil



Scale: 1 inch = 660 feet

LULJV 1,2,4,5&8

SITE PLAN



Inc.

(Biosolids Land Application)



Scale: 1 inch = 660 feet

LULJV 6 & 7

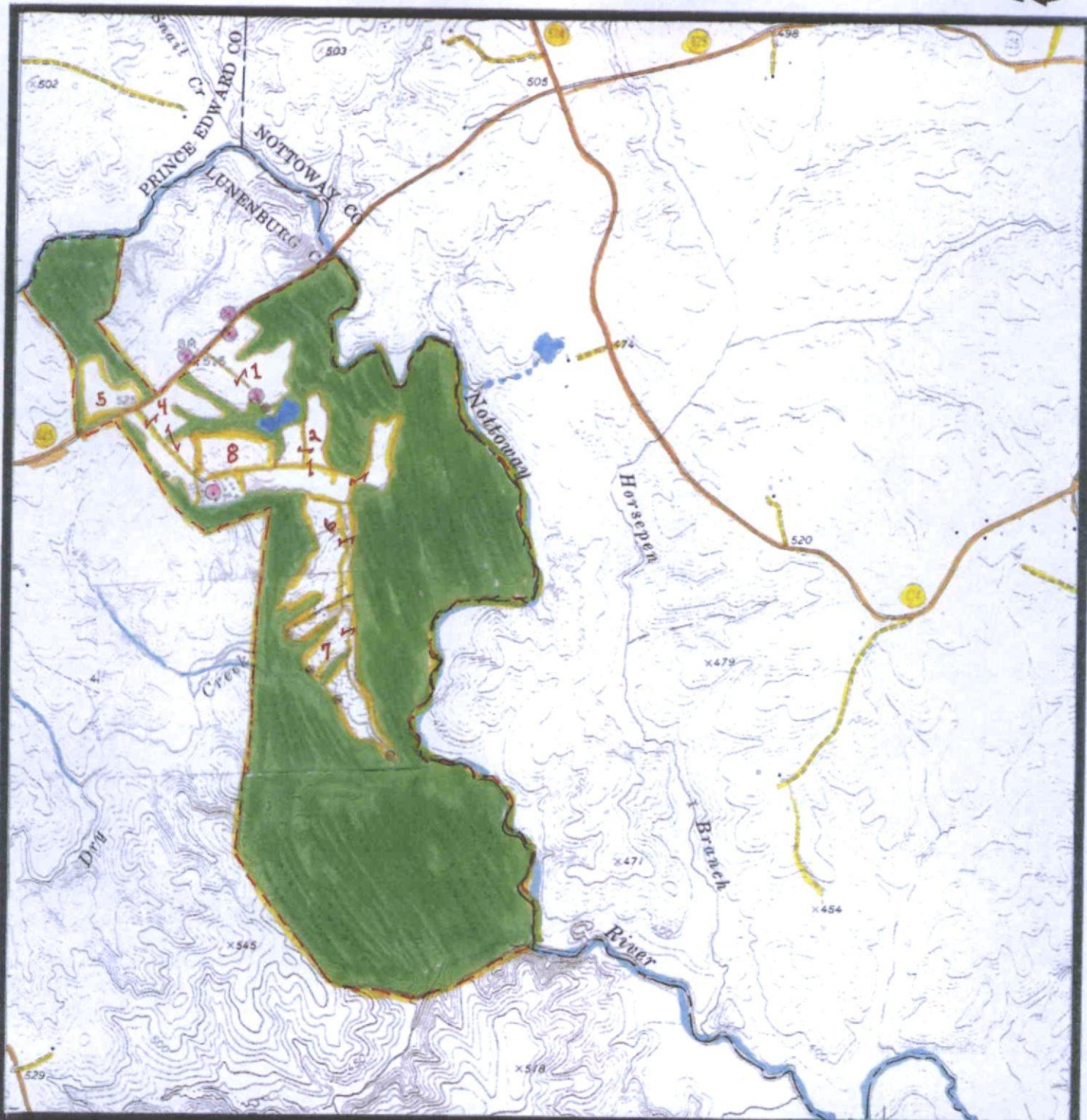
SITE PLAN



N

Recyc SystemsTM Inc.

(Biosolids Land Application)



Scale: 1 inch = 2000 feet

LULJV 1,2,4-8

TOPOGRAPHIC MAP

